CAS/STN Search History:

```
    FILE 'HCAPLUS' ENTERED AT 17:33:29 ON 25 MAR 2010
L1          1 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  US20080048548/PN
L2            SEL PLU=ON  L1 1- RN :        9 TERMS
L3     240760 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L2
L4          1 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L1 AND L3
              D ALL HITSTR

    FILE 'STNGUIDE' ENTERED AT 17:33:50 ON 25 MAR 2010

    FILE 'LCA' ENTERED AT 17:35:14 ON 25 MAR 2010
L5          3 SEA FILE=LCA SPE=ON  ABB=ON  PLU=ON  12254-17-0

    FILE 'REGISTRY' ENTERED AT 17:36:02 ON 25 MAR 2010
L6         45 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  AL.BA.MG.O.SR/MF
L7         23 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  AL.BA.MG.MN.O.SR/MF
L8      55455 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  23/O
L9      86390 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  19/O
L10       210 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  L9 AND 12/AL
L11        37 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  L8 AND 14/AL
L12        85 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  L10 AND BA/ELS
L13        20 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  L11 AND BA/ELS
L14        94 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  AL.BA.O/MF
L15        55 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  AL.BA.MN.O/MF
L16        17 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  L12 AND (L14 OR L15)
L17         2 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  L13 AND (L14 OR L15)
L18        21 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  ZINC SILICATE AND 2/ZN

    FILE 'HCAPLUS' ENTERED AT 17:42:35 ON 25 MAR 2010
L19        69 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L18
L20       435 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L16
L21         2 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L17
L22        86 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L6 OR L7
L23      7424 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  (L19 OR ZN2SIO4 OR (ZN OR ZINC)(W)?SILICATE?)
L24        45 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L23 AND L20
L25         0 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L23 AND L21
L26        23 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L23 AND L22
L27        59 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L24 OR L26

    FILE 'REGISTRY' ENTERED AT 17:45:14 ON 25 MAR 2010
L28        89 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  MN/MF

    FILE 'HCAPLUS' ENTERED AT 17:45:32 ON 25 MAR 2010
L29        52 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L27 AND L28
L30        20 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L27 AND (MN OR MANGANESE)(2A)ACTIVAT#######
L31        19 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L27 AND (MN OR MANGANESE)(2A)DOP######
L32         0 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L27 AND L7
L33        56 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  (L29 OR L30 OR L31)

    FILE 'LCA' ENTERED AT 17:46:55 ON 25 MAR 2010
L34        13 SEA FILE=LCA SPE=ON  ABB=ON  PLU=ON  GREEN(5A)(?COMPOSITE? OR BLEND###### OR MIX########)

    FILE 'HCAPLUS' ENTERED AT 17:47:28 ON 25 MAR 2010
L35         2 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L33 AND L34
              D ALL HITSTR 1-2

    FILE 'STNGUIDE' ENTERED AT 17:47:35 ON 25 MAR 2010

    FILE 'HCAPLUS' ENTERED AT 17:49:06 ON 25 MAR 2010
L36       107 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L34 AND (MN OR MANGANESE)(12A)GREEN
L37         3 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L36 AND  (L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18)
L38         1 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L37 NOT  L35
              D ALL HITSTR

    FILE 'STNGUIDE' ENTERED AT 17:50:16 ON 25 MAR 2010

    FILE 'LCA' ENTERED AT 17:51:18 ON 25 MAR 2010
L39         3 SEA FILE=LCA SPE=ON  ABB=ON  PLU=ON  12254-17-0
L40         0 SEA FILE=LCA SPE=ON  ABB=ON  PLU=ON  71012-47-0
```

CAS/STN Search History (continued):

```
    FILE 'HCAPLUS' ENTERED AT 17:52:10 ON 25 MAR 2010
L41      424 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  12254-17-0
L42       98 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  71012-47-0
L43       86 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L6 OR L7
L44       17 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L41 AND L42
L45       11 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L41 AND L43
L46        3 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L42 AND L43
L47        6 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  (L41 OR L42 OR L43)
             AND GREEN(5A)(?COMPOSITE? OR BLEND###### OR MIX#######)
L48        1 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L44 AND L45 AND L46
L49       29 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  (L44 OR L45 OR L46)
L50       34 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  (L47 OR L48 OR L49)
L51        3 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L35 OR L38
L52       31 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L50 NOT L51
L53       28 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L52 AND L28
L54       12 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L52 AND MN
L55       29 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L52 AND MANGANESE
L56        1 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L52 AND L7
L57       30 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  (L53 OR L54 OR L55 OR L56)
L58       31 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L52 OR L57
L59       19 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L58 AND 1950-2003/PY
L60       18 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L58 AND 1950-2002/PRY
L61        1 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L58 AND 2003/PRY AND US/PRC
L62       21 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  (L59 OR L60 OR L61)
             D BIB AB HITIND HITSTR 1-21
```

Dialog INSPEC search history:

26mar10 09:16:51 User259284 Session D4761.2
File   2:INSPEC 1898-2010/Mar W2
        (c) 2010 The IET

```
Set      Items    Description
S1         238    CI=ZN2SIO4
S2         247    CI=(ZN2(S)SIO4)
S3         439    ZN2SIO4
S4         227    (ZN OR ZN2)(3N)(SIO OR SIO4 OR SILICATE?? OR ORTHOSILICAT? OR METASILICAT?)
S5        6012    (MN OR MANGANESE)(3N)(DOP????? OR ACTIVAT?????)
S6        5865    CI=MN DOP
S7       71391    CI=MN
S8        1327    BAM
S9           1    CI=(BA SS(S)AL14 SS(S)O23 SS)
S10         35    CI=(BA SS(S)AL12 SS(S)O19 SS)
S11        292    CI=(BA SS(S)SR SS(S)AL SS(S)O SS)
S12        426    CI=(BA SS(S)MG SS(S)AL SS(S)O SS)
S13         69    CI=(BA SS(S)MG SS(S)SR SS(S)AL SS(S)O SS)
S14        621    S1:S4
S15      73114    S5:S7
S16       1395    S8 OR S13
S17       1399    S16 OR (S11 AND S12)
S18          1    14AND15AND17
S19          0    14AND15AND9
S20          2    14AND15AND10
S21          4    S9 OR S18:S20
S22          0    9AND10AND17
S23          0    9AND10
S24          0    9AND17
S25          3    10AND17
S26          7    S21:S25
S27          2    S26 AND GREEN
S28          1    S26 AND MIX??????
S29          0    S26 AND BLEND??????
S30          0    S26 AND COMBIN??????
S31          0    S26 AND TOGETHER
S32          0    S26 AND COMPOSITE??
S33          0    S26 AND NANOCOMPOSITE??
S34          3    S27:S28
S35          1    S26 AND NI=FREQ?
S36          3    S26 AND NI=WAVELENGTH?
S37          5    S34:S36
```

EAST Search History 3-26-2010:

Prior Art Search History

S_A	Type	Hits	Search Query	DBs	B...	Pl...	Time Stamp
L1	Pr.Art	33	plasmaco	US-PGPUB; USPAT; EPO; JPO...	OR	ON	2010/03/26
L2	Pr.Art	0	L1 and rao=8	US-PGPUB; USPAT; EPO; JPO...	OR	ON	2010/03/26
L3	Pr.Art	13	L1 and rao	US-PGPUB; USPAT; EPO; JPO...	OR	ON	2010/03/26
L4	Pr.Art	27	rao=~c5	US-PGPUB; USPAT; EPO; JPO...	OR	ON	2010/03/26
L5	Pr.Art	14	(L3 or L4) and green near4 phosphor	US-PGPUB; USPAT; EPO; JPO...	OR	ON	2010/03/26
L6	Pr.Art	31	"64/32/48"	US-PGPUB; USPAT; EPO; JPO...	OR	ON	2010/03/26
L7	Pr.Art	31	L6 and (green or blends)	US-PGPUB; USPAT; EPO; JPO...	OR	ON	2010/03/26
L8	Pr.Art	4	L6 and (green near6 blend$6)	US-PGPUB; USPAT; EPO; JPO...	OR	ON	2010/03/26
L9	Pr.Art	3157	green near4 phosphor near4 (mix$6 or blend$7 or composite or nanocomposite or combin$8 or together or pair $5 or two or three)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2010/03/26
L10	Pr.Art	190	green near4 phosphor near4 (mix$6 or blend$7 or composite or nanocomposite or combin$8 or together or pair$5 or two or three) near 12 (nm or 2nm ...	US-PGPUB; USPAT; EPO; JPO...	OR	ON	2010/03/26
L11	Pr.Art	47	green near4 phosphor near4 (mix$6 or blend$7 or composite or nanocomposite or combin$8 or together or pair $5 or two or three) near 12 (nm or 2nm ...	US-PGPUB; USPAT; EPO; JPO...	OR	ON	2010/03/26
L12	Pr.Art	16	L11 and @pp="250+"	US-PGPUB; USPAT; EPO; JPO...	OR	ON	2010/03/26
L13	Pr.Art	2	JP adj "2002038147"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2010/03/26